Frederick County Health Department
Health Indicators Report on Maternal and Child Health
March 2013

Report Card – Healthy People 2020

Indicator	Frederick County (as of 2011)	National 2020 Goal	Met National 2020 Goal
Infant Mortality Rate (per 1,000 Live Births)	3.6	6.0	Yes
Preterm Birth	9.3%	11.4%	Yes
Low Weight Births	7.5%	7.8%	Yes
First Trimester Prenatal Care	72.4%	77.9%	No

Healthy People 2020, http://www.healthypeople.gov/2020/topicsobjectives2020/

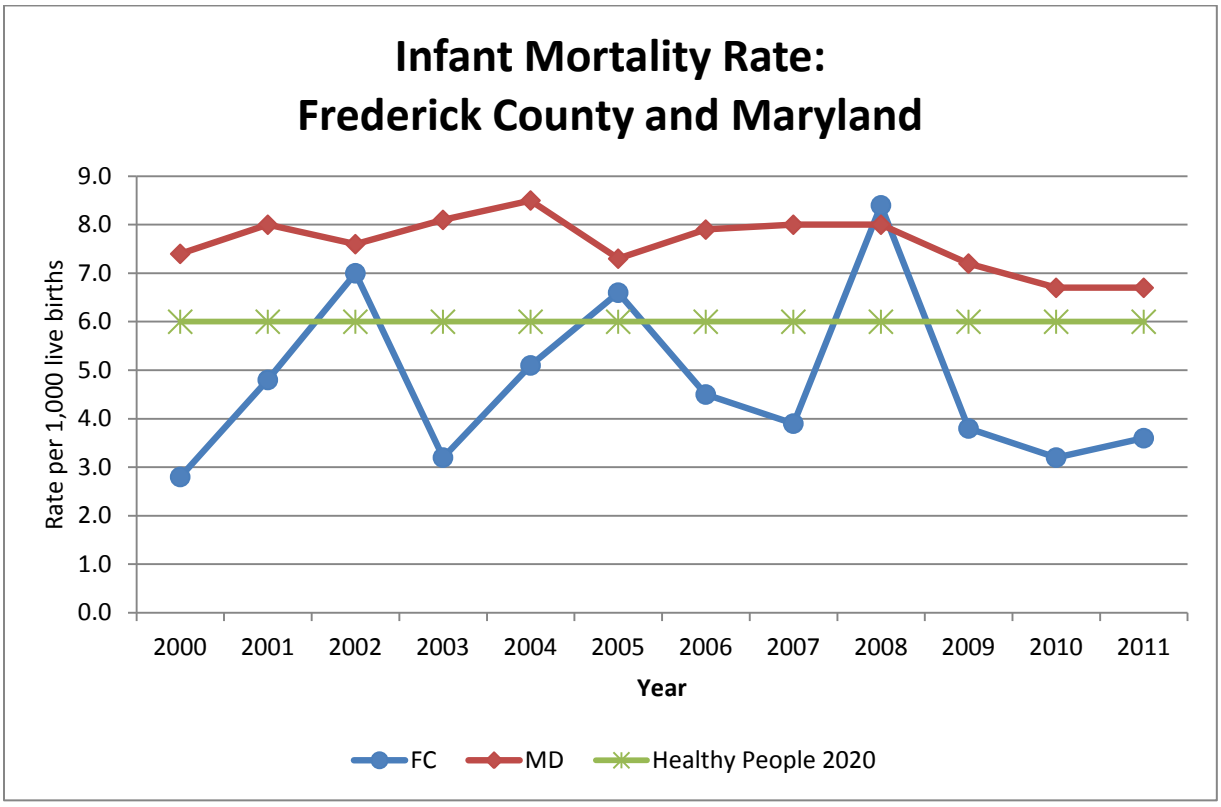
Infant Mortality
Infant mortality measures deaths during the first year of life.

In 2011, there were 11 infant deaths in Frederick County with an overall Infant Mortality Rate (IMR) of 3.6 per 1,000 live births. This rate is up 12.5% from the 2010 IMR of 3.2, but the overall rate since 2000 is trending downward slightly. The 2011 Frederick County IMR is 46% less than the Maryland rate of 6.7.

	2006	2007	2008	2009	2010	2011
Infant Mortality - All Races per 1,000 Live Births						
Frederick	4.5	3.9	8.4	3.8	3.2	3.6
Maryland	7.9	8.0	8.0	7.2	6.7	6.7
United States	6.7	6.8	6.6	6.4	6.1	6.1
Infant Mortality - Whites per 1,000 Live Births						
Frederick	4.2	2.8	6.6	3.4	3.0	2.2
Maryland	5.7	4.6	5.2	4.1	4.1	4.0
United States	5.6	5.6	5.6	5.3	5.2	5.1
Infant Mortality - Blacks per 1,000 Live Births						
Frederick	*	*	16.6	*	*	16.3
Maryland	12.7	14.0	13.4	13.6	11.8	12.0
United States	13.3	13.2	12.7	12.6	11.6	11.4

*Rates based on fewer than five events in the numerator are not presented since such rates are likely to be unstable.
Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.

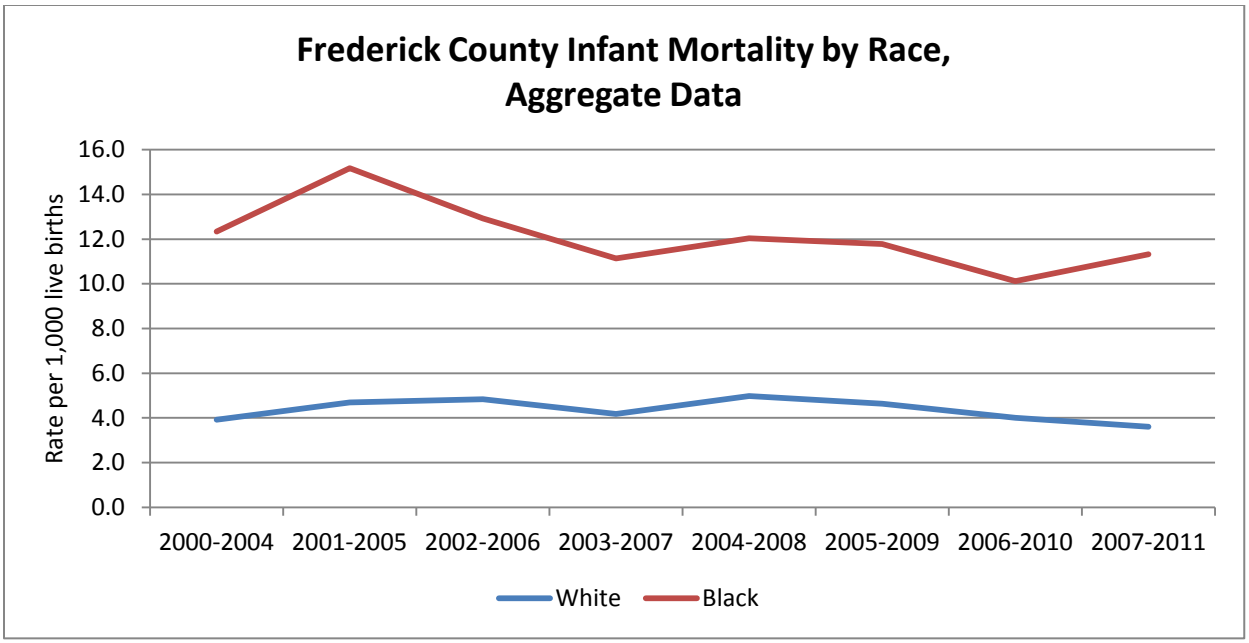
The Healthy People 2020 goal for infant mortality is no more than 6.0 deaths per 1,000 live births. Frederick County has met this goal overall since 2009 and is 40% less than the goal rate in 2011.



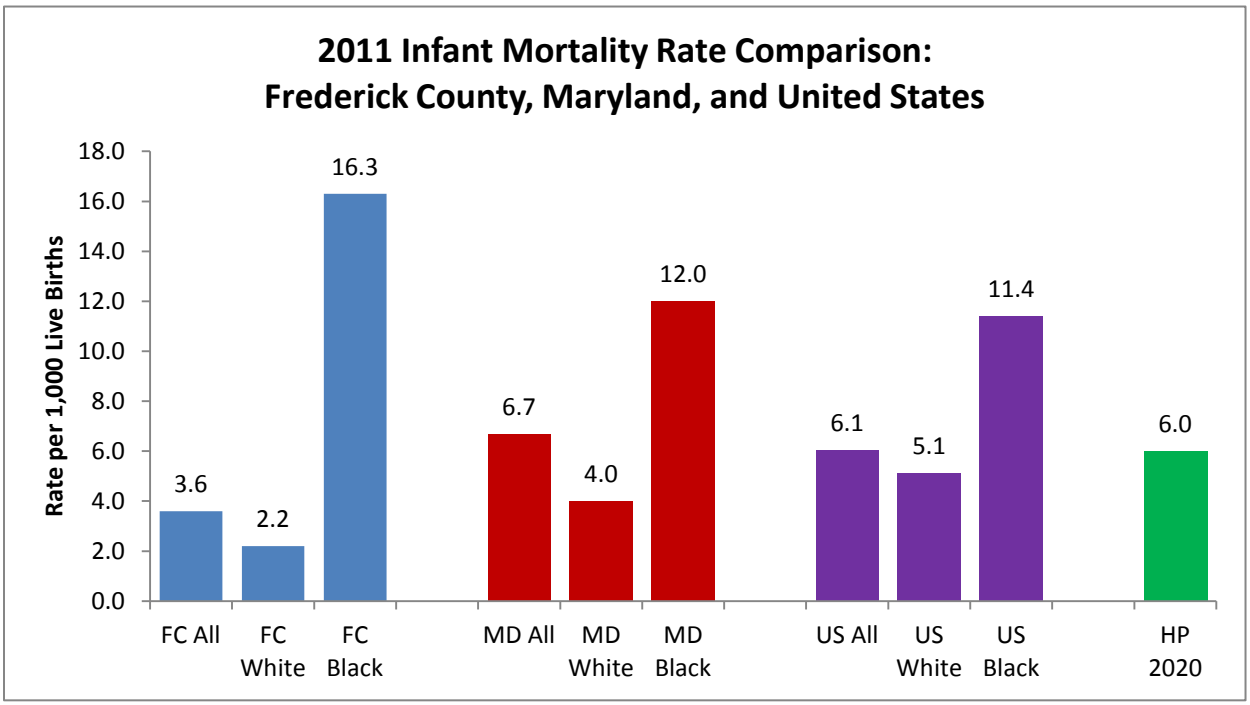
Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.
Healthy People 2020, http://www.healthypeople.gov/2020/topicsobjectives2020/

Although Frederick County currently meets the Healthy People goal overall, a significant disparity continues to exist between white and black infant mortality. In 2011, black infants in Frederick County had a mortality rate of 16.3, over seven times higher than white infants. The IMR for black infants in Frederick County was 35% higher than for black infants in Maryland, and 42% higher than black infants in the U.S.

Racial disparity in infant mortality rates has been compared based on five-year aggregate data. This data shows that the IMR for black infants in Frederick County has consistently been two to three times higher than for white infants since 2000.



Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.

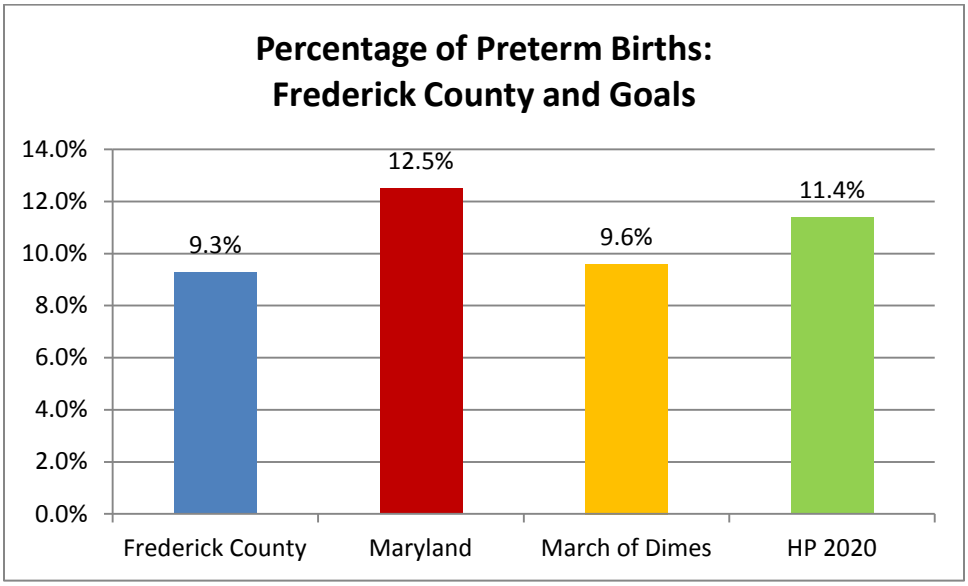


Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.
Healthy People 2020, http://www.healthypeople.gov/2020/topicsobjectives2020/

Preterm Birth

Live births occurring between 20 and 36 weeks of gestation are categorized as preterm births.

According to Maryland Vital Statistics data for 2011, 9.3% of live births in Frederick County were preterm. The March of Dimes goal is 9.6%, while the Healthy People 2020 goal is 11.4%. Frederick County reported 3.2% fewer preterm births than Maryland in 2011 and the county is currently meeting both of these standards.



Data Source: March of Dimes at http://www.marchofdimes.com/peristats/pdflib/998/MD.pdf
Healthy People 2020, http://www.healthypeople.gov/2020/topicsobjectives2020/

Low Birth Weight

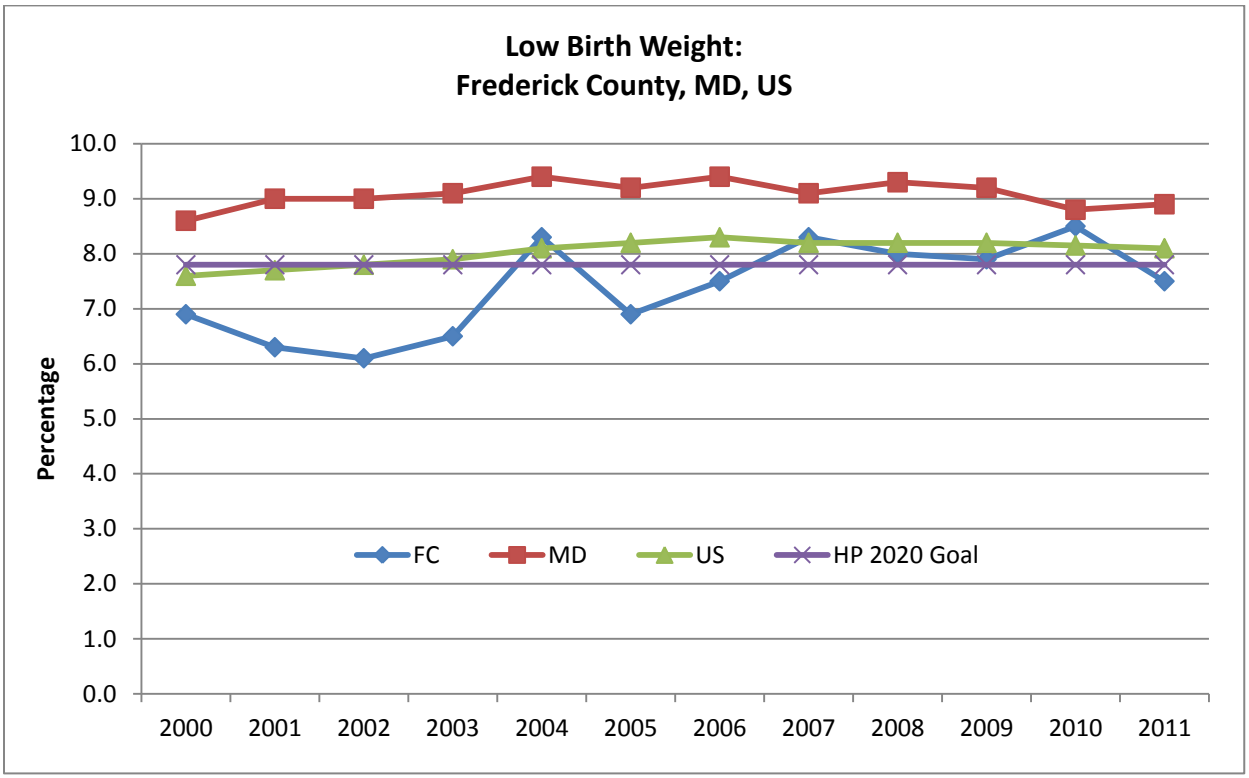
Low birth weight is defined as weight of less than 2500 grams at birth.

In 2011, there were 207 births in Frederick County (7.5%) were low birth weight, which was a decrease from 8.5% in 2010.

Percent of Low Birth Weight Infants (<2500 grams or approximately 5.5 lbs)						
	2006	**2007**	**2008**	**2009**	**2010**	**2011**
Frederick	7.5%	8.3%	8.0%	7.9%	8.5%	7.5%
Maryland	9.4%	9.1%	9.3%	9.2%	8.8%	8.9%
United States	8.3%	8.2%	8.2%	8.2%	8.2%	8.1%

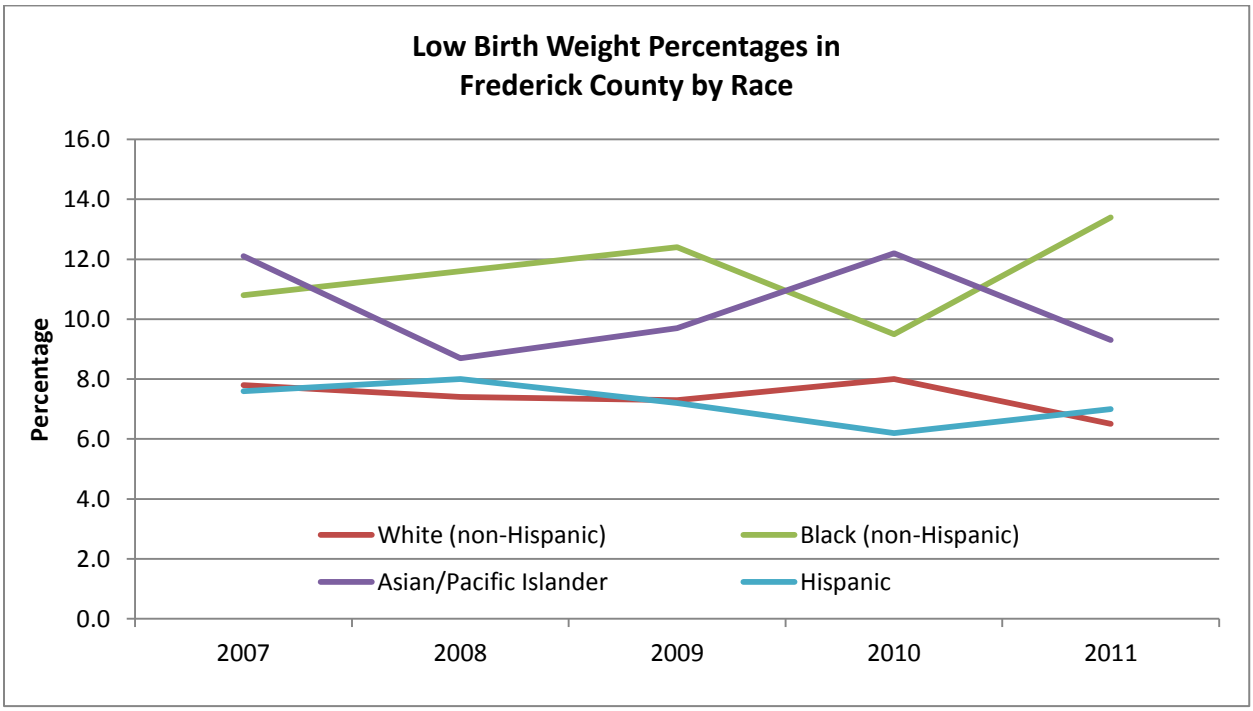
Data Source: Maryland Vital Statistics Reports, Division of Health Statistics,

The Healthy People 2020 goal is for no more than 7.8% of births to be classified as low birth weight. Frederick County met this goal in 2011 for the first time since 2006. Frederick County has consistently had a lower percentage of low birth weight than Maryland and trended very closely to the U.S. data.



Data Source: Maryland Vital Statistics Reports, Division of Health Statistics,
Maryland DHMH; National Center for Health Statistics, CDC.
Healthy People 2020, http://www.healthypeople.gov/2020/topicsobjectives2020/

While the low birth weight percentage for all Frederick County births has met the Healthy People 2020 goal, racial disparities exist so that not all racial groups meet the goal. Blacks and Asian/Pacific Islanders have a higher percentage of low birth weights than Whites and Hispanics in Frederick County, with Blacks showing the largest disparity with an average of twice the percentage of low birth weight of Whites.

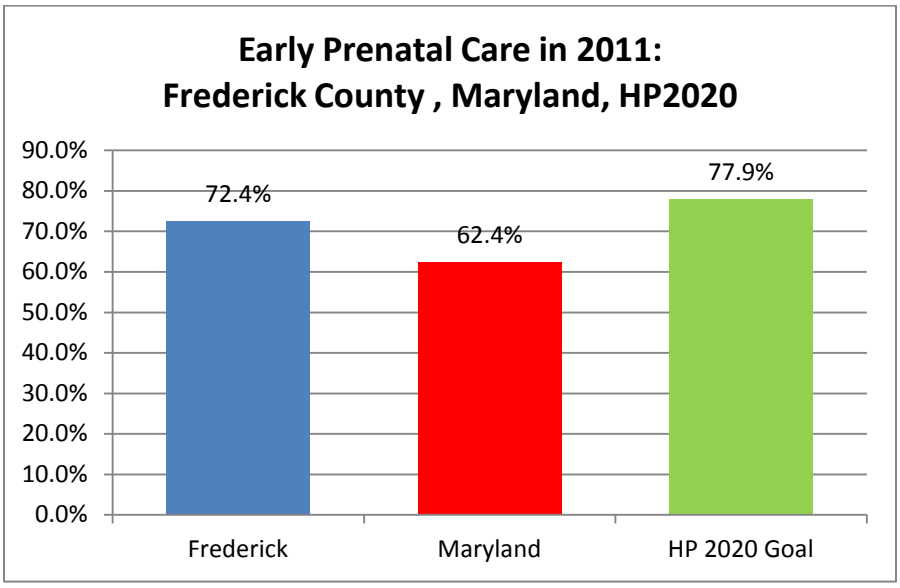


Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.

Early Preterm Care

Early entry into prenatal care is defined as prenatal care beginning in the 1st trimester of pregnancy.

In 2011, 72.4% of all women giving birth in Frederick County reported receiving prenatal care during their first trimester of pregnancy. This is ten percent higher than for Maryland, but still falls short of the Healthy People 2020 goal of 77.9%.



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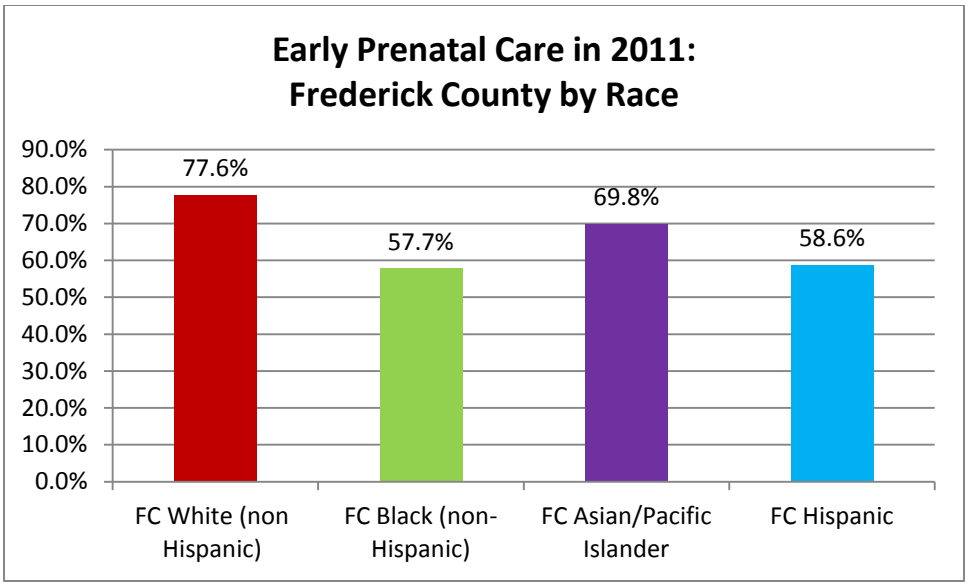
The methodology for collecting information on the time during pregnancy that prenatal care began was changed in the 2010 revision of the Maryland birth certificate. As a result, prenatal care data collected after 2009 are not comparable to data collected in earlier years. For this reason, trend data are not shown.

The racial breakdown of early prenatal care data shows some disparity between the racial groups. The White non-Hispanic group is close to meeting the Healthy People 2020 goal, but the Black non-Hispanic and Hispanic populations were approximately 20% lower than the White non-Hispanic population.



Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.

Vital Statistics Formulas

Infant Mortality Rate: Number of Infant Deaths/ Total Number of Live Births *then* (x1000)

% Low Birth Weight Births: Number of Low Birth Weight Infants Born Alive/ Total Number of Live Births *then* (x100)

% Early Prenatal Care: Total Number of Births Prenatal Care Began in the First Trimester / Total Number of Births Prenatal Care Began in the Any Trimester – including No Care and Unknown *then* (x100)

Infant Mortality Racial Disparity: = One Racial Group's Infant Mortality Rate/ A comparison Group's Infant Mortality Rate.

GLOSSARY OF TERMS

EARLY PRENATAL CARE: Prenatal care accessed within the first trimester (conception through week 12) of pregnancy.

LOW BIRTH WEIGHT: The weight of an infant at birth that is equal to or less than 2499 grams (5lbs, 8.14 oz).

RACIAL DISPARITY: The quotient of one racial group's Infant Mortality Rate divided by a comparison racial group's Infant Mortality Rate. It is used to gauge by what multiple is the condition or fact of IMR different between one racial group of the population versus another racial group of the population.

AGGREGATE ANALYSIS: Is a reference to data combined from several measurements. In this report, it is referred to data combined from the IMR data of the past 5 consecutive years as compared with several previous 5 year data group analyses. When there are less than 5 occurrences of a group's infant mortality within a particular year, that data is not counted as it would render the formula to be statistically unstable.